MASTER OF SCIENCE (SPEECH-LANGUAGE PATHOLOGY)
M.Sc. (S.L.P.) Sem-I : WINTER :- 2021

SUBJECT: NEUROBIOLOGY OF SPEECH-LANGUAGE & COGNITION

Day : Tuesday
Date 05-Apr-2022 **W-19516-2021**

Time : 10:00 AM-01:00 PM
Max. Marks: 80

N.B.

1) All questions are compulsory
2) The number to the right indicates full marks.
3) Draw diagrams wherever necessary.

Q.1 Attempt any **FOUR** out of six **(60)**

a) Illustrate; 'human brain is enigmatic with its principles governing brain behavior relationship'. Highlight major boundaries of neuroanatomy of language with suitable diagram

b) Discuss neural basis of receptive and expressive language skills in human brain. Enlist important pathways and substrates for naming, reading and calculation.

c) 'Language and cognition are interdependent entities providing neural substrates for communication and plasticity', comment.

d) Give an account on semantic and syntactic processing and production in human brain

e) 'Monolingual versus bilingual language representation in human brain is essential to study and address in fraternity of cognitive neurosciences', comment

f) 'Brain plasticity, CNS maturation and handedness among developmental and acquired neurogenic communication disorders', elaborate

Q.2 Attempt any **FOUR** out of six **(20)**

a) Functional neuroimaging in language and cognition

b) Neural basis of speech perception

c) Gerstmann`s syndrome

d) Model of attention with respect to working memory and its clinical utility

e) Pre and post language intervention fMRI in aphasia rehabilitation

f) Role of MCA and its clinical anatomy with respect to language and cognitive disorder post stroke

* * * * *